Unit Two Lesson 1



स्थान्त्रिया क्ष्यान्या क्ष्या

## Worksheet ᢃ

Answer each of the following questions:

Write the scientific term :	(5 marks)
1. A type of lamp bases that has two side nails and two pie	eces
of lead to connect the lamp with the electric circuit.	()
2. A type of electric lamps that has two filaments of tungste	en
and two points of connection.	()
3. A material that is used to cover the inner surface of the	
fluorescent lamp.	()
<ol> <li>A part of the lamp that heats and emits light when electronic through it.</li> </ol>	ic current passes
5. They convert the electric energy into light energy.	()
[A] Correct the underlined words in the following sent	ences: (5 marks)
Electric lamps contain hydrogen inert gas.	()
2. The filament of the light bulb is made of copper.	()
3. The light bulbs are the most popular source of natu	ral light.
	()
[B] What happens if ?	
<ol> <li>The filament of the lamp is made of iron.</li> </ol>	
······································	
2. There is air inside the glass bulb.	***************************************
Complete the following sentences :	(5 marks)
1is the most popular source of artificial light and it	is used in car lights,
while is used in decorating the commercial store	es.
2is a coiled thin wire that made of tungsten.	
2 is a coned thin who that made of tungsten.	

W2+2 0

#### Worksheets

	<ol> <li>consists of a filament, glass bulb and the base of the light bulb, while consists of a glass tube, two filaments of tungsten and points of connection.</li> </ol>			
	4 is an inert gas that increases the lifetime of the filament.			
	<ol><li>has a piece of lead, while the has two side nails and of lead.</li></ol>	I two pieces		
	<ol><li>allow the electric current to transfer from the base of the lar the tungsten filament.</li></ol>	mp to		
	7. The filament of the lamp is made of as it has high melting p	oint.		
4.		(5 marks)		
	Tungsten filament – Points of connection – Copper and lead			
	wires – Base of the light bulb			
	- Glass bulb - A piece of lead -	My /		
	Glass tube.			
5.	[A] Give reasons for :  1. Copper and lead wires are very important in the light bulb.	(5 marks)		
	The glass bulb of the light bulb contains argon gas.			
	Filaments of electric lamps are made of tungsten.			
	[B] Mention the function of each of the following:  1. The points of connection in the fluorescent lamp:			
		***************************************		
	2. The filament :			
	•••••••••••••••••••••••••••••••••••••••			
	•••••••••••••••••••••••••••••••••••••••			

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمستعلق



#### Lesson 1





Answer each of the	following questions	:	
. Choose the corr	ect answer :		(5 marks)
1. The is t	he continuous path th	rough which the	electric current passes.
a. open electric	c circuit	b. battery	
c. closed electr	ric circuit	d. lamp	
2 works a	as a source of electric	current in the ele	ectric circuit.
a. Lamp	b. Electric wire	c. Battery	d. Key
3. The light bulbs	are connected in	in the house.	
a. parallel		b, series	
c. parallel and	series		
d. series in son	ne places and in para	llel in the other p	laces.
	ection, the light intens	and the second second	
	y increasing the numb	The state of the s	
	decreasing the number		
The second second	increasing the numb		
d. (a) or (b).	more and the man	or or the light but	
	one bulb from bulbs	connected in par	allal
	current doesn't flow.		e electric current flows.
	of the other bulbs is		is electric current nows.
d. (b) and (c).	of the other builds is	siii constant.	
	*1		
<ul> <li>Write the scienti</li> </ul>	fic term :		(5 marks)
<ol> <li>A way of conne</li> </ol>	ection, in which the lig	ht bulbs are conn	nected
one after anoth	ner.		()
2. A part of the ele	ectric circuit used to c	onnect the batter	У
to the lamp in t	he electric circuit.		()
150	ection, in which the ligh	nt bulbs are conn	
in branching ro	outes.		( )
16			

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

2+2

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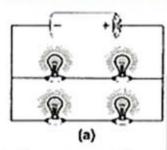
#### Worksheets

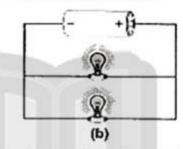
<ol><li>A way of connection, in which the light intensity remains</li></ol>	constant
by increasing or decreasing the number of lamps.	()

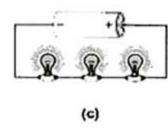
The way of connecting machines and all lamps in the house.

#### 3. Look at the following circuits, then answer:

(5 marks)







- 1. Name one of the above circuits that has electric lamps connected in series? .....
- 2. In which circuit do the bulbs glow most brightly?
- 3. In which circuit do the bulbs glow least brightly?

#### 4. Complete the following sentences:

(5 marks)

- 1. The electric circuit consists of ...... and ...... and .....
- 2. ..... and ..... are methods to connect the electric lamps in the electric circuits.
- 3. In ..... connection, there is no branches, but in ..... connection, the light bulbs are connected in branching routs.
- 4. In parallel connection, the light intensity of the light bulbs ..... by increasing or decreasing the number of the light bulbs.
- 5. In series connection, the light intensity of the light bulbs ...... by increasing the number of the light bulbs.

#### D. [A] Give reasons for :

(5 marks)

 Damage any of the lamps in a room doesn't affect the lamps in the other rooms of the house.

العاصد على للت (Notebook) / : ب/ يرم ٢ (م : ٢)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ





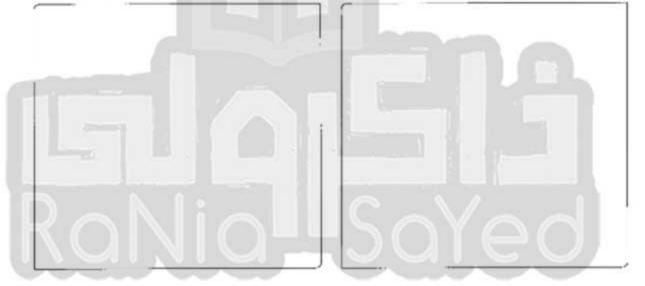
2+2

2.	On unscrewing one bulb from an electric circuit contains electric bulbs connected in series, the electric current doesn't flow.
	••••••••••••••••••••••••••••••••••••
	••••••
3	When unscrewing one bulb from an electric circuit contains electric bulbs
	connected in parallel, the electric current flows.

#### [B] Explain by drawing only how can you connect two light bulbs :

1. In series

2. In parallel



(18)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوي

كتاب المعاصر

ول المراكب المساوي

<del>പ്രത്യാത്രവംവ</del>

#### **Unit Two**

2+2

#### Lesson 2



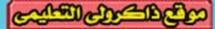


#### Answer each of the following questions:

. Cho	ose the corr	ect answer:		(5 marks
1. V	Vhich of the fo	ollowing is from the	indirect injuries ?	****
a	. Fires resulting	ng from electricity.		
b	. Falling from	the top of a ladder.		
C	The electric	shock.		
d	. Burns result	ing from the electric	current.	
			tric conductors except	
	iron.	b. copper.	c. aluminium.	
3. F	ires caused b	y electricity are put		
	, water.	b. sand.	c. air.	d. (a) and (b).
4. W	Which of the fo		the benefits of electr	
	Cooking foo		b. Lighting hous	
			levisions and washing	
	(a), (b) and		To rio iono ano maoning	, maomios.
			ease in the temperatu	re of the electric
	nachines.	o a result of the me	cuso in the temperate	no or the electric
	The electric	shocks	b. Burns resulting from	n the electric current
	The state of the s	ng from electricity	d. Indirect injuries	in the electric content
			o. mancot injunes	
Writ	te the scienti	fic term :		(5 marks)
1. M	laterials that r	nake the electric circ	cuit open when they a	re
C	onnected with	it.	•	(
720000000		TOTAL	e than one machine to	3 2
		uses electric overloa		
			(T)	()
			onnecting the electric	
ti	ne electric ma	chine that generate	s heat after use.	()
4. M	laterials that a	allow the flow of elec	ctricity through them.	()
5. TI	he material th	at should not be use	ed to put out electric fir	es. ()
				19)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى





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[B] Give reasons for :	
<ol> <li>Electricity is very important in our life.</li> </ol>	
	***************************************
2. Plugging more than one machine to one socket ca	uses electric fires.
Copper is a good conductor of electricity.	
[A] Complete the following statements :  1	mproper use of
2. Iron is from, while is from electric in	sulators.
Iron is from, while is from electric in [B] Compare between the electric conductors and electric conductors.	
[B] Compare between the electric conductors and ele	
[B] Compare between the electric conductors and electric conductors are conductors.	ectric insulators.
[B] Compare between the electric conductors and ele	ectric insulators.
[B] Compare between the electric conductors and electric conductors are conductors and electric conductors and electric conductors are conductors.	herancoon (5 m
Look at the opposite figures, then answer:  1. In which figure the light bulb will light up when the electric wires	herancoon (5 m
Look at the opposite figures, then answer:  1. In which figure the light bulb will light up when the electric wires	herancoon (5 m

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمستعلقة

2+2 9

#### Worksheets

In which figure the light bulb     will not light up when the electric wires	Plasto nier
connected to the bulb ? Why ?	
	( <del>-)</del> )
•••••••••••••••••••••••••••••••••••••••	
•••••••••••••••••••••••••••••••••••••••	E) 6
What do you conclude from	
the two figures ?	Fig. (b)



21)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمسوية

Total May

#### **Unit Two**

#### Lesson 2



#### Answer each of the following questions:

5. Placing a piece of plastic in the socket.

The behaviour	(√) or (x)
<ol> <li>Leaving an electric machine connected with the electric current while taking a bath.</li> </ol>	
Leaving wires naked and not insulated.	
<ol><li>Don't clean or fix an electric machine while it is connected to the electric current.</li></ol>	
Place several connections in the same socket.	

- 2. [A] Correct the underlined words in the following sentences: 1. The electric shock happens when plugging more than one machine to one socket. Water is not used in putting out electric fires because it is a bad conductor of electricity. Thermal glass is among electric conductor substance. [B] Mention the type and the reason of this injury :
- 3. Write the scientific term : (5 marks) 1. They are burns that result from electricity and cause the damage of the body tissues. 2. A danger that results when a part of your body touches a wire that has an electric current and the other part touches the ground.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى





2+2

#### Worksheets

<ol><li>A direct injury results when a spark resulting from the elect</li></ol>	
	part of your body touches a wire that has
- 1 N T N THE NEW YORK (1997) - 1 N THE STATE OF THE STA	er part touches a material conducting
electricity.	()
5. An injury results when a part	of your body touches a device
that generates heat.	()
Choose the correct answer :	(5 marks)
1. All the following are from the pr	recautions in dealing with electricity except
<ul> <li>a. don't place flammable mat heat.</li> </ul>	erials close to the electric machines that generate
b. place a piece of plastic in t	he socket.
c. don't insert a nail in the so	cket.
d. play with the electric conne	ections.
2. The electric burns happen wi	hen
a. a part of your body touche	s a source of electric current directly.
b. a part of your body touche	s a spark resulting from an electric fire.
c. a part of your body touches the other part touches the	s a wire that has an electric current and ground.
d. (a) and (b).	
3. All the following reasons are from	om the reasons of the electric fires except
a. placing an electric machine	e that generates heat close to curtains.
b. plugging more than one m	achine in the same socket.
c. passing the electric curren	t through the human body.
<ul> <li>d. not disconnecting the election generates heat.</li> </ul>	tric current from the electric machine that
4 results when your bo	dy is a part of an electric circuit.
a. Electric fire	b. Electric conductor
c. Electric burn	d. Electric shock
5. Burns that result from electric	city and cause the damage of the body tissues
are	
a. electric fires.	b. electric shock.
c. electric burns.	d. indirect injuries.
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<ul> <li>[A] Mention three precautions in dealing with electricity.</li> </ul>	(5 marks)
••••••	
•••••••••••••••••••••••••••••••••••••••	***************************************
***************************************	••••••
[B] Give reasons for :	
<ol> <li>Placing a piece of plastic in the socket.</li> </ol>	
	***************************************
<ol><li>We must not touch any electric machines with wet hands.</li></ol>	
	***************************************
	***************************************



24)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصفية

2+2

## 2 UNIT

## General Exercise of the School Book on

1.	C	omplete the following sentences:			
		and are two ways for connecting electricity.			
	2	the electricity.	dealing with		
	The simple electric circuit consists of				
2.	C	orrect the underlined words :			
	1.	The electric lamp converts the electric energy to the kinetic energy	/. ( ······· )		
		The filament of the light bulb is made of carbon.	(		
		While connecting the lamps in parallel the lamps are connected other.	,		
	4.	There are two connecting points at each end of the light bulb.			
		The electric fire occurs due to the passage of the electric currer human body.			
	6.	The electric lamps are connected in the house in series.	()		
		When the lamps in the electric circuit are connected in series , the			
	_	to work if a lamp is damaged.	()		
		The glass bulb of the electric lamp contains hydrogen gas.	()		
	9.	Wood is considered a good conductor of electricity.	()		
3.	Wr 1.	rite the scientific explanation to each of the following: The swelling (glass bulb) of the electric lamp contains an inert gas	instead of air.		
	2.	Not placing metallic things inside the socket.			
	3.	There are connecting points at the ends of the fluorescent lamps.	***************************************		
	4.	Not placing flammable materials too close to the electric machine generate heat.	s that		
		(1: e) Yew /w > / (Notebook)	ر الحاس		

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلم

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4.	Col	mpare between each of the following:	
	1. (	Connecting electric lamps in series and connecting in parallel.	
		······································	
			***************************************
	2. 1	The light bulb and the fluorescent lamp in respect to structure.	
	3.	The conducting materials of electricity and the non-conducting m	aterials.
5.	Wr	ite the scientific term of each of the following :	
		Materials that allow the electric current to pass through it.	()
	2.	Fires occur due to the increase in the temperature of the electric wi	res.
			()
	3.	Materials that don't allow the electric current to pass through it.	d the intensity
	4.	The way that electric lamps are connected one after another, and of the light of the lamps decreases with the increase in their numbers.	ber.
		the cleaning to light energy	()
	6.	A tool used to convert the electric energy to light energy.  The way that the lamps are connected through branching routes the lamps are not affected with the increase in their number.	,
		One of the dangers of the electricity occurs due to the passage ocurrent through the human body.	CONTRACTOR OF THE PARTY OF THE
	8	One of the dangers of the electricity is that it destroys the tissue	of the body.
	4	0,100,1110	()
6.	W 1.	rite your own paragraph on each of the following: The electric shock.	
	2.	The electric fires.	
	3.	The electric lamp.	
	4.	The precautions that should be taken to deal with the electricity.	
		***************************************	
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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

स्मिक्सिया क्यान्या क्रम्या

## Model Exam 1

#### on Unit Two

25

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Answer each of the following questions :

1. The fluorescent lamps contain gas and a little of from the electric while copper is considered from the electric more than one bulb with the circuit in series, the light intensity.  4. In houses, the electric lamps are connected in 5. The electric shock occurs as a result of passing through the human body, in many cases it causes 6. The electric circuit consists of battery, lamp and 6. The electric circuit consists of battery, lamp and 7. There is a glass bulb around the filament 9. We shouldn't touch uncovered electric wires.  [B] Write the scientific term: 1. They allow the electric current to pass from the base of the light bulb to the tungsten filament (	••	· Complete the following statements .	(5 marks)
from the electric		1. The fluorescent lamps contain gas	and a little of
4. In houses, the electric lamps are connected in			, while copper is considered
5. The electric shock occurs as a result of passing			the circuit in series, the light
body, in many cases it causes  6. The electric circuit consists of battery, lamp and  2. [A] Give reasons for:  1. There is a glass bulb around the filament.  2. We shouldn't touch uncovered electric wires.  [B] Write the scientific term:  1. They allow the electric current to pass from the base of the light bulb to the tungsten filament.  2. The material that should be used to put out electric fires.  3. A type of lamps their inner surface is covered with phosphoric material.  (		4. In houses, the electric lamps are connected	d in
2. [A] Give reasons for:  1. There is a glass bulb around the filament.  2. We shouldn't touch uncovered electric wires.  [B] Write the scientific term:  1. They allow the electric current to pass from the base of the light bulb to the tungsten filament.  2. The material that should be used to put out electric fires.  3. A type of lamps their inner surface is covered with phosphoric material.  (			ssing through the human
1. There is a glass bulb around the filament.  2. We shouldn't touch uncovered electric wires.  [B] Write the scientific term:  1. They allow the electric current to pass from the base of the light bulb to the tungsten filament.  2. The material that should be used to put out electric fires.  3. A type of lamps their inner surface is covered with phosphoric material.  (		6. The electric circuit consists of batt	ery, lamp and ·····
1. There is a glass bulb around the filament.  2. We shouldn't touch uncovered electric wires.  [B] Write the scientific term:  1. They allow the electric current to pass from the base of the light bulb to the tungsten filament.  2. The material that should be used to put out electric fires.  3. A type of lamps their inner surface is covered with phosphoric material.  (	2.	. [A] Give reasons for :	(5 marks)
1. They allow the electric current to pass from the base of the light bulb to the tungsten filament.  2. The material that should be used to put out electric fires.  3. A type of lamps their inner surface is covered with phosphoric material.  (			ent.
1. They allow the electric current to pass from the base of the light bulb to the tungsten filament.  2. The material that should be used to put out electric fires.  3. A type of lamps their inner surface is covered with phosphoric material.  (		2. We shouldn't touch uncovered electric	wires.
tungsten filament.  2. The material that should be used to put out electric fires.  3. A type of lamps their inner surface is covered with phosphoric material.  (		[B] Write the scientific term :	~ _ \ /
3. A type of lamps their inner surface is covered with phosphoric material.  (			
3. Choose the correct answer:  1. The electric shock may cause  a. electric current. b. electric burns. c. electric fires. d. electric overload.  2. If we have four light bulbs and we need to get high light intensity, so we must connect them  a. in series. b. in parallel. c. (a) and (b). d. no correct answer.  3. If we connect an eraser with an electric circuit, the		2. The material that should be used to pu	t out electric fires. ()
3. Choose the correct answer:  1. The electric shock may cause  a. electric current. b. electric burns. c. electric fires. d. electric overload.  2. If we have four light bulbs and we need to get high light intensity, so we must connect them  a. in series. b. in parallel. c. (a) and (b). d. no correct answer.  3. If we connect an eraser with an electric circuit, the		3. A type of lamps their inner surface is co	overed with phosphoric material.
a. electric current. b. electric burns. c. electric fires. d. electric overload.  2. If we have four light bulbs and we need to get high light intensity, so we must connect them  a. in series. b. in parallel. c. (a) and (b). d. no correct answer.  3. If we connect an eraser with an electric circuit, the			()
a. electric current. b. electric burns. c. electric fires. d. electric overload.  2. If we have four light bulbs and we need to get high light intensity, so we must connect them  a. in series. b. in parallel. c. (a) and (b). d. no correct answer.  3. If we connect an eraser with an electric circuit, the	3.	Choose the correct answer :	(5 marks)
<ol> <li>If we have four light bulbs and we need to get high light intensity, so we must connect them</li></ol>			
a. in series. b. in parallel. c. (a) and (b). d. no correct answer. 3. If we connect an eraser with an electric circuit, the a. electric circuit will be opened. b. electric circuit will be closed.		a. electric current. b. electric burns. c.	electric fires. d. electric overload.
If we connect an eraser with an electric circuit, the     a. electric circuit will be opened.     b. electric circuit will be closed.			get high light intensity, so we must
a. electric circuit will be opened.  b. electric circuit will be closed.		a. in series. b. in parallel. c.	(a) and (b). d. no correct answer.
		3. If we connect an eraser with an electric circ	cuit, the
c. electric current will flow.  d. (b) and (c).		a. electric circuit will be opened. b.	electric circuit will be closed.
			(b) and (c).

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4. Which of the following gases is found in the fluorescent lamp light bulb?	but not in the
iight colo ;	
a. Argon. b. Water vapour. c. Neon. d. M	lercury vapour.
5. Electric wires must be covered with	
a. copper. b. iron. c. lead. d. pl	astic.
[A] Correct the underlined words :	(5 marks)
<ol> <li>The electric lamp contains <u>active</u> gas to increase the lifeting filament.</li> </ol>	me of the ()
2. The inventor of the electric light bulb is the scientist Archimed	des.()
<ol><li>The human body is a good conductor of electricity as it contains gases.</li></ol>	()
[B] What happens when ?	
<ol> <li>One of the light bulbs is broken, while it is connected in ser others.</li> </ol>	ries with the
You insert a metallic bar in an electric socket.	
[A] Put (√) or (x):	(5 marks)
<ol> <li>The fluorescent lamp is known as neon lamp because it coneon gas.</li> </ol>	ontains the inert
<ol><li>We can use a piece of wood to push the injured person du accidents.</li></ol>	ring electric
3. The spiral base has two side nails and two pieces of lead.	( )
[B] Notice the two following figures then answer the question	ns:
1. Complete: Figure (A) represents the way to connect the electric lamps in	○ (o)— ?
2. Choose : The lighting of the bulbs in figure (B) is	(B)
(more than - less than - equal to) the lighting of the same b	75 75

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3. What happens if: An electric lamp in figure (B) burns?

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## Model Exam 2

#### on Unit Two



#### Answer each of the following questions:

Choose the correct answer	er:		(5 marks
1. The inert gas that exists i	inside the light	bulb is used to	**
a. decrease the amount	of electricity.	<ul> <li>b. decrease the life</li> </ul>	time of the filamen
c. increase the amount o	f electricity.	d. increase the lifet	ime of the filamen
2. Water is not used in putti	ng out fires ca	used by electricity, be	cause
a. it is a bad conductor o	f electricity.	b. it is a good cond	luctor of electricity
c. it may evaporate.		d. no correct answ	er.
3. All the following materials	s allow the flow	of the electric curren	nt except
a. iron. b. al	uminium.	c. rubber.	d. copper.
4. Tungsten is preferred to	be used in the	light bulb because it	has
a. bad conductivity.		b. high melting poi	nt.
c low density.		d. low melting poin	t.
5. Plugging many appliance	es to one sock	et may cause	
a. heating up of wires.		b. electric overload	i.
c. fires.		d. (a), (b) and (c).	
A danger of electricit to one socket.		s when plugging more	than one machin
A danger of electricit to one socket.      Materials that don't a	y that happens	to flow through.	than one machin
A danger of electricit to one socket.	y that happens	to flow through.	than one machin
A danger of electricit to one socket.      Materials that don't a 3. It carries the lamp in	y that happens allow electricity upright position	to flow through.	than one machin
A danger of electricit to one socket.      Materials that don't a 3. It carries the lamp in  [B] What happens when .	allow electricity upright position.	to flow through. on and connects the la	than one machin
A danger of electricit to one socket.      Materials that don't a 3. It carries the lamp in	allow electricity upright position.	to flow through. on and connects the la	than one machin
A danger of electricit to one socket.      Materials that don't a 3. It carries the lamp in  [B] What happens when .	allow electricity upright position.?	to flow through. on and connects the la	than one machin
1. A danger of electricit to one socket.  2. Materials that don't a 3. It carries the lamp in [B] What happens when .  1. The filament of the light carries are selectric fires are	allow electricity upright position.?	to flow through. on and connects the la	than one machin
1. A danger of electricit to one socket.  2. Materials that don't a 3. It carries the lamp in [B] What happens when .  1. The filament of the light	allow electricity upright position.? ght bulb is made put out by was statements:	to flow through. on and connects the la	than one machine
1. A danger of electricit to one socket.  2. Materials that don't a 3. It carries the lamp in [B] What happens when .  1. The filament of the light complete the following s 1. Among the safety precaution of the safety precaution of the safety precaution.	allow electricity upright position. ? ght bulb is made put out by was statements:	to flow through. on and connects the lade of iron. ter.	amp to electricity.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر

स्थान्त्रिया क्ष्यान्या क्ष्या

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ

# Total nage

#### **Unit Three**

2+2

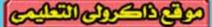
#### Lesson 1

	Worksheet 7	
Answer eac	ch of the following questions :	
1. Types 2. The s 3 4. During	te the following sentences: s of solar eclipse are	of the Moon.
and the second s	pecial glasses must be used to look at the solar eclipse.	(5 marks)
	he type of solar eclipse differs according to the movement ne Moon in front of the Sun.	of
1. L 2. T 3. W	rect the underlined words: ight travels in curved lines. he Moon revolves around the Earth in a circular orbit. When the Earth is in the semi-shaded area of the Moon, nnular solar eclipse occurs.	{
AND DESCRIPTION OF THE PERSON	at happens if ? dark object is placed between a lighted candle and a scre	(5 marks) en.
2. Ti	ne Moon hides the sunlight completely from the Earth's su	rface.
	te the scientific term : he dark inner shadow area in which the total solar eclipse a	ppears.
2. T	he type of solar eclipse in which the Sun appears as a ligh	iting ring.
3. T	he faint outer shadow area in which the partial solar eclips	

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स्मान्स्य क्यान्या क्रम्या

. [A] What is meant by?		(5 marks
1. Total solar eclipse :		
***************************************	••••••	······
<ol><li>Partial solar eclipse ;</li></ol>		
[B] Choose from column (A) wha	it suits in colum	n (B) :
(A)		(B)
1. Partial solar eclipse	a.	(B)

C.

3. .....

#### 5. Examine the opposite figure, then answer:

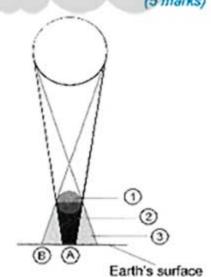
2. .....

3. Total solar eclipse

(5 marks)

- 1. Label the figure :
  - ① .....
  - ② .....
  - ③ .....
- Mention the type of solar eclipse occurs at :

  - (B) .....



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## Electric lamps

Answer Guide P. 17

## Worksheet 5

	ron <b>b.</b> electric lamp	c electric booten	
2. The filamer		c. electric neater	d. washing machine
	nt of the light bulb is ma	ide of	
<ul> <li>a. tungsten</li> </ul>	b. copper	c. iron	d. aluminum
3. A	prevents air from rea	ching the filament.	
a. glass bul	Ь	b. copper wire	
c. a piece o	flead	d. base of the ligh	nt
4. All the follo	owing are parts of the flu	uorescent lamp exce	pt the
a. points of	connection	b. glass tube	
c. tungsten	filament	d. base of the bull	Ь
B) Give a reason	for each of the follow	ving:	
1. The filamen	t of the light bulb is ma	de of tungsten.	
2. The glass b	ulb of the light bulb is fil	lled with inert argon	gas.
	wo points of connection		
A) Complete the	following:		
1	andare ki	nds of electric lamps	j.
2. The filame a high	nt of the regular electri	ic lamp is made of	because it ho

GEM / Science / Primary 6





## Worksheets & Exams

3 is used	to prevent the tungsten f	filament from burning.
-----------	---------------------------	------------------------

- 5. A fluorescent lamp filled with \_\_\_\_\_ inert gas.
- 6. The inventor of the electric lamp is ......

### B) Put ( / ) or ( x ) in front of each of the following:

- Electric bulbs are one of the most popular sources of artificial light.
- The glass bulb of the electric lamp contains the atmospheric air. ( )
- 3. Fluorescent lamps are called neon lamps, because they contain an inert gas called neon.
- 4. The filament of the light bulb is made of copper. ( )

(6)

(3)

### 3 A) What is meant by ...?

- Electric lamp.

#### B) Look at the opposite figure, then answer:

- a. What is the name of this figure? .........................
- b. Label the figure:
  - · ...... 2. ......
  - 3. \_\_\_\_\_\_.
  - 5. \_\_\_\_\_ 6.

## 4 A) What happens if ...?

- The filament of the lamp is made of iron.
- There is air inside the glass bulb.

#### B) Correct the underlined words in the following sentences:

- 1. The glass bulb of the light bulb contains an active gas.
- 2. There is one kind of bases for the electric bulb.
- 3. Electric lamps and devices are connected in series at home.
- 4. The <u>light</u> energy is converted into <u>electric</u> energy in the fluorescent lamp.

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الصف السادس الابتدائي

## Worksheet 5

i. Lamps are connected	in series in houses.	(
2. The main source of the	e electric current in the electric circuit is the battery.	(
102000 100 In 10	r electric devices at home is not working, the rest	85
of lamps and devices I		(
<ol><li>The light intensity december of lamps.</li></ol>	creases if a circuit is connected in series by increasing .	g (
Choose the correct an	swer:	
1. When the electric land	np is connected in parallel with others in the electric	c circ
	lecreases c. doesn't change	
	es and increases other times	
2. When we connect mo	re than one bulb in series with an electric source, the	light
a. decreases b. re	emains as it is c. increases d. no correct ar	nswer
3. The light bulbs are co	onnected in in the house.	
	Annected in in the nouse.	
a. parallel	b. series	
a. parallel c. parallel and series	b. series	
a. parallel c. parallel and series	b. series d. no correct answers	
a. parallel c. parallel and series Match words from (A)	b. series d. no correct answers with the suitable sentences from (B):	ne aft
a. parallel c. parallel and series Match words from (A)  (A)	b. series d. no correct answers with the suitable sentences from (B):  (B)  a) It is a method where lamps are connected on	
a. parallel c. parallel and series  Match words from (A)  (A)  1. Electric circuit	b. series d. no correct answers  with the suitable sentences from (B):  (B)  a) It is a method where lamps are connected or another in the electric circuit.  b) It is a closed and continuous path through where	nich
a. parallel c. parallel and series  Match words from (A)  (A)  1. Electric circuit  2. Parallel	b. series d. no correct answers  with the suitable sentences from (B):  (B)  a) It is a method where lamps are connected or another in the electric circuit.  b) It is a closed and continuous path through where electric current passes.  c) It is a way in which the light bulbs are connected or another in the electric current passes.	nich



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## **Worksheets & Exams**

- B) Correct the underlined words in each of the following:
  - 1. Open electric circuit has no gaps.
  - 2. In series electric circuit, when one light bulb burns out, the other lamps remain light.
  - 3. To connect the lamps in parallel, the lamps are connected one after the other.
  - 4. Fluorescent lamp contains the inert <u>neon</u> gas.

3 A) Write the scientific term for each of the follow	win	ıg
---	-----	----

- 1. Lamps are called neon lamps.
- A method where the electric lamps are connected in branching
   routes.

#### B) Give a reason for each of the following:

- 1. There must be a switch in the electric circuit.
- 2. It is advisable to use energy-saving lamps.
- 3. Electric lamps should be connected in parallel in houses.

### 4 A) What happens if ...?

- 1. There is no battery in the electric circuit.
- 2. The electric lamps are connected in series.

### B) Compare between connecting in series and connecting in parallel:

	P.O.C	Connecting in series	Connecting in parallel
	1. Light intensity		
The second second	2. The effect of burning or unscrewing any of lamps		

(20)

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلق





الصف السادس الابتدائي



## Dangers of electricity and how to deal with it

Answer Guide P. 18

## Worksheet 7

1. Materials are divided conductivity of electi	intoandand	according to their
	ctric injuries area	nd
<ol><li>The electric shock to body.</li></ol>	akes place when the	passes through the humar
4. Dangers of electricit	y include,	and
_		
B) Classify the following n	naterials into electric condu	ctors and electric insulators
B) Classify the following notice:  Materials	naterials into electric conductors	ctors and electric insulators  Electric insulators

materials	Electric conductors	Electric insulators
Wood		
Iron		
Copper		
Aluminum		
Plastic		
Wool		
Rubber		
Glass		

A) Write the scientific term for each of the following:

- One of the electric dangers that damages body tissues. 2. Substances that don't allow electricity to flow through.
- 3. Substances that allow electricity to flow through.

### B) What are the dangers that happen in the following cases?

- 1. Opening more than one electric device through one socket.
- 2. Leaving electric wires without covering them.

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ا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى أفاكسوله الصف السادس الابتدائي صحيح الكريس الابتدائي حصي





## 💈 🥯 Norksheets & Exams

	) Choose the co	rrect answer:				
	1. Electric wires	are covered with	*			
	a. lead	b. copper	c. plastic	d. wood		
	2. Plugging mor	e than one device in	one socket leads to	<b>)</b>		
	a. electric sh	ock	b. electric bur	'n		
	c. increasing	electric load	d. all the prev	vious answers		
	3 is	a good conductor o	f electricity.			
	a. Wood	b. Copper	c. Plastic	d. Glas	s	
В	) Put ( / ) or ( / ) i	n front of each of	the following sent	ences:		
	1. Plastic is a g	ood conductor of el	ectricity.		(	)
	2. Electric insu	lators allow the flo	w of electric current	through.	(	)
	3. Iron, copper	r and rubber are ele	ctric conductors.		(	)
	4. When puttin	g a piece of wood in	an electric circuit,	the electric		
	current flow	s through it.			(	)
	() What happens	in the following	cases?			
	1. Touching a	source of electricity	directly with a part	of your body.		
		piece of a rubber er	aser in an electric ci	rcuit.		
	3. Putting out	an electric fire by w	rater.		•••••	
E	3) Give a reason	for each of the fol	lowing:			
	1. Electric wire	es are made of copp	er.			
	2. Wood is con	nsidered an electric i	4			
2)			•	GEM / Science	1000 P. 100 P. 1	-

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## Worksheet 8

<ol> <li>It is advisable to put out an electric fire using water.</li> <li>We use electric insulators when we are dealing with a person suffering from an electric shock.</li> <li>The battery is not a main component in the electric circuit.</li> <li>It is preferable to use an electric switch in houses.</li> <li>Mention factors affecting the strength of the electric shock.</li> <li>A) Give a reason for each of the following:         <ol> <li>We should never push a person suffering from an electric shock using an interest of the electric wires are made of copper.</li> </ol> </li> <li>B) Correct the underlined words:         <ol> <li>Electric fires happen when electricity passes through the human body.</li> <li>Among the causes of the electric fires is decreasing electric load.</li> <li>Water is not used to put out regular fires.</li> </ol> </li> <li>A) Complete the following sentences:         <ol> <li>The leads to destroying the tissue of the body.</li> <li>Metallic materials are considered electric</li> <li>B) What are the precautions in dealing with electricity?</li> </ol> </li> </ol>								
<ol> <li>We use electric insulators when we are dealing with a person suffering from an electric shock.</li> <li>The battery is not a main component in the electric circuit.</li> <li>It is preferable to use an electric switch in houses.</li> <li>Mention factors affecting the strength of the electric shock.</li> <li>We should never push a person suffering from an electric shock using an in the electric wires are made of copper.</li> <li>Power cables are covered with insulators.</li> <li>Electric wires are made of copper.</li> <li>Electric fires happen when electricity passes through the human body.</li> <li>Among the causes of the electric fires is decreasing electric load.</li> <li>Water is not used to put out regular fires.</li> <li>A) Complete the following sentences:         <ol> <li>The leads to destroying the tissue of the body.</li> <li>Metallic materials are considered electric</li> <li>Metallic materials are considered electric</li> </ol> </li> </ol>	(	)						
from an electric shock.  3. The battery is not a main component in the electric circuit.  4. It is preferable to use an electric switch in houses.  B) Mention factors affecting the strength of the electric shock.  2. A) Give a reason for each of the following:  1. We should never push a person suffering from an electric shock using an in electric wires are covered with insulators.  3. Electric wires are made of copper.  B) Correct the underlined words:  1. Electric fires happen when electricity passes through the human body.  2. Among the causes of the electric fires is decreasing electric load.  3. Water is not used to put out regular fires.  A) Complete the following sentences:  1. The leads to destroying the tissue of the body.  2. Metallic materials are considered electric  B) What are the precautions in dealing with electricity?	<b>S</b> 0:							
4. It is preferable to use an electric switch in houses.  B) Mention factors affecting the strength of the electric shock.  2 A) Give a reason for each of the following:  1. We should never push a person suffering from an electric shock using an in 2. Power cables are covered with insulators.  3. Electric wires are made of copper.  B) Correct the underlined words:  1. Electric fires happen when electricity passes through the human body.  2. Among the causes of the electric fires is decreasing electric load.  3. Water is not used to put out regular fires.  A) Complete the following sentences:  1. The leads to destroying the tissue of the body.  2. Metallic materials are considered electric  B) What are the precautions in dealing with electricity?	(	)						
B) Mention factors affecting the strength of the electric shock.  2 A) Give a reason for each of the following:  1. We should never push a person suffering from an electric shock using an in  2. Power cables are covered with insulators.  3. Electric wires are made of copper.  B) Correct the underlined words:  1. Electric fires happen when electricity passes through the human body.  2. Among the causes of the electric fires is decreasing electric load.  3. Water is not used to put out regular fires.  A) Complete the following sentences:  1. The	(	)						
A) Give a reason for each of the following:  1. We should never push a person suffering from an electric shock using an in 2. Power cables are covered with insulators.  3. Electric wires are made of copper.  B) Correct the underlined words:  1. Electric fires happen when electricity passes through the human body.  2. Among the causes of the electric fires is decreasing electric load.  3. Water is not used to put out regular fires.  A) Complete the following sentences:  1. The leads to destroying the tissue of the body.  2. Metallic materials are considered electric  B) What are the precautions in dealing with electricity?	(	)						
A) Give a reason for each of the following:  1. We should never push a person suffering from an electric shock using an in a control of the should never push a person suffering from an electric shock using an in a control of the should never push a person suffering from an electric shock using an in a control of the should never push a person suffering from an electric shock using an in a control of the shock using an in a control								
2. Power cables are covered with insulators.  3. Electric wires are made of copper.  B) Correct the underlined words:  1. Electric fires happen when electricity passes through the human body.  2. Among the causes of the electric fires is decreasing electric load.  3. Water is not used to put out regular fires.  A) Complete the following sentences:  1. The leads to destroying the tissue of the body.  2. Metallic materials are considered electric  B) What are the precautions in dealing with electricity?								
2. Power cables are covered with insulators.  3. Electric wires are made of copper.  B) Correct the underlined words:  1. Electric fires happen when electricity passes through the human body.  2. Among the causes of the electric fires is decreasing electric load.  3. Water is not used to put out regular fires.  A) Complete the following sentences:  1. The leads to destroying the tissue of the body.  2. Metallic materials are considered electric  B) What are the precautions in dealing with electricity?	on b	oar.						
3. Electric wires are made of copper.  B) Correct the underlined words:  1. Electric fires happen when electricity passes through the human body.  2. Among the causes of the electric fires is decreasing electric load.  3. Water is not used to put out regular fires.  A) Complete the following sentences:  1. The leads to destroying the tissue of the body.  2. Metallic materials are considered electric  B) What are the precautions in dealing with electricity?								
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2. Among the causes of the electric fires is decreasing electric load. 3. Water is not used to put out regular fires.  A) Complete the following sentences:  1. The leads to destroying the tissue of the body.  2. Metallic materials are considered electric  B) What are the precautions in dealing with electricity?								
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1. Theleads to destroying the tissue of the body. 2. Metallic materials are considered electric  B) What are the precautions in dealing with electricity?								
2. Metallic materials are considered electric  B) What are the precautions in dealing with electricity?								
B) What are the precautions in dealing with electricity?								
		anninine .						

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## Worksheets & Exams

	w would you advise the following persons?  Some people are putting out an electric fire using water.	
2. /	A person is trying to save another one suffering from an elect	ric shock.
A) Wri	te the scientific term for each of the following:	
1. 3	t occurs due to the passing of an electric current through the	human body.
		(
2. 1	Burns resulting from electricity that damage body tissues.	(
B) Wh	at are the causes of electric fires?	
_		
*******		
CIMIL		
	at happens if? Using sand to put out electric fires.	
	Osing sand to put out electric in es.	
2.	You place an electric heater close to furniture.	
lia.		
3.	Touching an uncovered wire while touching the ground.	
4.	Electric wires are left uncovered and non-insulated.	



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on Unit

Answer Guide P. 19

with their increase in number.

1.	andare two ways for connecting electricity.
2.	with the electricity.
3.	The simple electric circuit consists of, and
4.	materials.  and materials.  are examples of the electric insulating
5.	In the case of connecting the lamps in the lighting of the lamps decreases

## Correct the underlined words in the following sentences:

- The electric lamp converts the electric energy to the kinetic energy.
- 2. The filament of the light bulb is made of carbon.
- 3. While connecting the lamps in parallel, the lamps are connected one after the other.
- 4. There are two connecting points at each end of the light bulb ends.
- 5. The electric fire occurs due to the passage of the electric current through the human body.
- 6. The electric lamps are connected in the house in series,
- 7. The lamps in the electric circuit continue to work when connecting in series if a lamp is damaged.
- 8. The glass bulb of the electric lamp contains hydrogen gas.
- 9. Wood is considered a good conductor of electricity.

### Give a reason for each of the following:

- 1. The swelling of the electric lamp contains an inert gas instead of air.
- Not placing metal things inside the socket.
- There are connecting points at the ends of the fluorescent lamps.
- 4. Not placing flammable materials too close to the electric machines that generate heat.

GEM / Science / Primary 6









## Worksheets & Exams

	<u>u</u> q )				
4	Compare	between	each of	tne r	ollowing:

- 1. Connecting electric lamps in series and connecting in parallel.
- 2. The light bulbs and the fluorescent lamps in respect of structure.
- 3. The conducting materials of electricity and the non-conducting materials.

5	Write	the s	cientific	term of	each o	f the fo	llowing:

<ol> <li>Materials that allow the electric current to pass through.</li> </ol>	(	
2. Fires occur due to the increase it the temperature of the electric wires.	(	
3. Materials that don't allow the electric current to pass through.	(	
4. The way that the electric lamps are connected one after the other, and the intensity of the light of the lamps decreases with the increase in their number.		
5. The way of converting the electric energy to light energy.	(	
5. The way that the lamps are connected through branching routes a the light of the lamps are not affected with the increase in their number		
7. One of the dangers of the electricity occurs due to the passing of		
the electric current through the human body.	(	
3. One of the dangers of electricity is that it destroys the tissues of the bod	ıy. (	
3. One of the dangers of electricity is that it destroys the tissues of the book.  Write an explanation for each of the following:  1. The electric shock.	ig. (	
Write an explanation for each of the following:		
Write an explanation for each of the following:  1. The electric shock.		Cast Astronomy (1994)
Write an explanation for each of the following:  1. The electric shock.  2. The electric fires.		
Write an explanation for each of the following:  1. The electric shock.  2. The electric fires.  3. The electric lamp.  4. The precautions that should be taken to deal with the electricity.		
Write an explanation for each of the following:  1. The electric shock.  2. The electric fires.  3. The electric lamp.  4. The precautions that should be taken to deal with the electricity.		

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الصف السادس الابتدائي



## GEM General Tests on Unit

Answer Guide P. 19 (Total mark: 20)

## Test 1

A) Complete the follow	wing sentences:	(5 marks
1. Among the methods connecting in	s of connecting electric lamps are connecting in	and
2, iron and	d are good conductors of electricity.	
3. In the home,	connection of lamps is better thanco	onnection.
4 and	are kinds of electric lamps.	
B) Compare between:		
THE RESIDENCE OF THE PARTY OF T	of light and artificial sources of light. Give exampl	es.
A) Correct the underli	ned words in the following sentences:	(5 marks
1. Electric energy is co	onverted into kinetic energy in the electric lamp.	
2. The filament of the	regular bulb is made of <u>carbon</u> .	
3. On connecting in po	arallel, lamps are connected one after another.	
4. The <u>regular</u> lamp h	as two conducting points at each of its two ends.	
5. Electric fires happe	n when electricity passes in the human body.	
6. Electric lamps are d	connected in series in houses.	
7. The glass bulb of th	e regular lamp contains <u>hydrogen</u> gas.	
8. Wood is a good cor	nductor of electricity.	
B) Label the opposite	figure:	
1	(4)	
2		
3	(2)	(5)
4		(3)
5	(1)	
6	(3)	
• The function of no. (	4):	

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## Worksheets & Exams

	A) Write the scientific term:			
	1. Substances that allow the electric current to pass through.	(		)
	2. Fires that happen when electric devices become overheated.	` (		)
	3. Substances that don't allow the electric current to pass through.	(		)
	4. A method where lamps are connected one after another.	(		)
	<ol> <li>A method where lamps are connected through branches and the light intensity is not affected.</li> </ol>	(		)
	6. A device that changes electric energy into light energy.	(		)
	<ol><li>One of the dangers of electricity that happens when the electric current passes through the human body.</li></ol>	(		)
	<ol><li>One of the dangers of electricity that causes damage to the body tissues.</li></ol>	(		)
	B) Mention the way in which light bulbs are connected in the home.	(Give r	easo	ns)
				2
4	A) Give a reason for each of the following:		(5 ma	rks)
4	A) Give a reason for each of the following:     1. The glass bulb of the electric lamp contains inert gas instead of air.		(5 ma	rks)
4			(5 ma	rks)
4	1. The glass bulb of the electric lamp contains inert gas instead of air		(5 ma	rks)
4	The glass bulb of the electric lamp contains inert gas instead of air      It is advisable not to insert metal objects inside the electric socket	imp.		
4	1. The glass bulb of the electric lamp contains inert gas instead of air 2. It is advisable not to insert metal objects inside the electric socket 3. The existence of conducting points at the ends of the fluorescent la	mp.	uce h	eat.
4	1. The glass bulb of the electric lamp contains inert gas instead of air  2. It is advisable not to insert metal objects inside the electric socket  3. The existence of conducting points at the ends of the fluorescent la  4. It is advisable not to place flammable substances beside electric devices the	mp.	uce h	eat.
4	<ol> <li>The glass bulb of the electric lamp contains inert gas instead of air</li> <li>It is advisable not to insert metal objects inside the electric socket</li> <li>The existence of conducting points at the ends of the fluorescent late.</li> <li>It is advisable not to place flammable substances beside electric devices the substances beside electric devices the place flammable substances beside electric devices the substances are substances.</li> </ol>	amp.	uce h	eat.
4	<ol> <li>The glass bulb of the electric lamp contains inert gas instead of air</li> <li>It is advisable not to insert metal objects inside the electric socket</li> <li>The existence of conducting points at the ends of the fluorescent load.</li> <li>It is advisable not to place flammable substances beside electric devices the substances.</li> <li>The light intensity increases in the case of series connection.</li> <li>The electric circuit is an open path through which the electric current personal series.</li> <li>The electric fire happens when the human body touches an electric devices are electric.</li> </ol>	amp.	uce h	eat.
4	<ol> <li>The glass bulb of the electric lamp contains inert gas instead of air</li> <li>It is advisable not to insert metal objects inside the electric socket</li> <li>The existence of conducting points at the ends of the fluorescent late.</li> <li>It is advisable not to place flammable substances beside electric devices the substances beside electric devices the light intensity increases in the case of series connection.</li> <li>The electric circuit is an open path through which the electric current produces that produces heat.</li> </ol>	amp.	uce h	eat.
4	<ol> <li>The glass bulb of the electric lamp contains inert gas instead of air</li> <li>It is advisable not to insert metal objects inside the electric socket</li> <li>The existence of conducting points at the ends of the fluorescent load.</li> <li>It is advisable not to place flammable substances beside electric devices the substances.</li> <li>The light intensity increases in the case of series connection.</li> <li>The electric circuit is an open path through which the electric current personal series.</li> <li>The electric fire happens when the human body touches an electric devices are electric.</li> </ol>	amp.	uce h	eat.

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(Total mark: 20)

## Test 2

A) Correct the underlined words in the following sentences:	(5 marks)
<ol> <li>The light intensity of electric lamps decreases by increasing their being connected in parallel.</li> </ol>	number when
2. Electricity is safe when we deal with it carelessly.	
3. A person suffering from an electric shock is isolated from the electr	ic circuit by

- an iron bar-4. Water is not used in putting out electric fires because it is a bad conductor of
- electricity.
- B) What is the importance of each of the following? 1. Covering power cables with insulating substances.
  - The presence of a battery in the electric circuit.
- A) Put (√) or (X) in front of each of the following sentences: (5 marks) 1. All the gaseous lamps contain neon gas. 2. There is only one type of bases for the regular electric bulb. 3. Among safety precautions when dealing with electricity is not leaving electric wires uncovered. 4. The electric shock causes damage to the body tissues.
  - B) Compare between connecting in series and connecting in parallel.

P.O.C	Connecting in series	Connecting in parallel
1. Way of connection		
2. Light intensity		
3. The effect of burning or unscrewing any of lamps		

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## Worksheets & Exams

	2. Connecting the electric lamps in series connection.
	3. The absence of mercury vapor in the fluorescent lamp.
B)	Give a reason for each of the following:
	1. There is a glass bulb around the filament.
	2. The presence of the battery in the electric circuit.
A	Complete the following sentences: (5 marks
	1 and are examples of electric insulators.
	2. The simple electric circuit consists of and and
	3. The electric overload is the reason of
	4. The damage caused by electricity and destroying the body tissues is called
B)	What is the function of each of the following?
	1. Conducting points in the fluorescent lamp.
	2. Tungsten filament.
	3. The electric switch in the electric circuit.

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# The Universe

## The solar eclipse

Answer Guide P. 21

Worksheet (C)	
---------------	--

I he solar	eclinse is formed wh	nenlies betw	een the Sun and
on one		ieii ties betw	reen the Sun and
		ow in which the total so	olar eclipse occurs
		the Earth in	
4. The Sun e	emits rays which is har	mful to the eyes such a	s and
B) What is me	eant by?		
1. Umbra.			
2. Penumbro	o.		
A) Choose th	e correct answer:		
N 2 132 2		es so it casts a shadow o	of the dark bodies in its w
N 2 132 2	ravels inlin	es so it casts a shadow o c. straight	
1. Sunlight to a. carve	ravels inlin d b. zigzag	c. straight	d. no correct answer
1. Sunlight to a. carve 2. The solar	ravels inlin d b. zigzag	c. straight the Earth is lined with th	d. no correct answer
1. Sunlight to a. carve 2. The solar a. Earth	ravels inlin  b. zigzag  eclipse occurs when t	c. straight the Earth is lined with th and the Sun	d. no correct answer
1. Sunlight to a. carved 2. The solar a. Earth b. Moon	ravels inlin  b. zigzag  eclipse occurs when the setween the Moon is between the Earth	c. straight the Earth is lined with the and the Sun and the Sun	d. no correct answer
1. Sunlight to a. carved 2. The solar a. Earth b. Moon c. Sun is	ravels inlin  b. zigzag  eclipse occurs when to is between the Moon is between the Earth between the Moon a	c. straight the Earth is lined with the and the Sun and the Sun nd the Earth	d. no correct answer
1. Sunlight to a. carved 2. The solar a. Earth b. Moon c. Sun is 3. The	ravels inlin  b. zigzag  eclipse occurs when to is between the Moon is between the Earth between the Moon ais the phenome	c. straight the Earth is lined with the and the Sun and the Sun and the Earth and the Earth and the Earth	d. no correct answer
1. Sunlight to a. carved 2. The solar a. Earth b. Moon c. Sun is 3. The the Moon	ravels inlind b. zigzag eclipse occurs when to is between the Moon is between the Earth between the Moon a is the phenome from reaching the su	c. straight the Earth is lined with the and the Sun and the Sun and the Earth enon of through which the arface of the Earth.	
1. Sunlight to a. carved 2. The solar a. Earth b. Moon c. Sun is 3. The	eclipse occurs when to is between the Moon of is between the Moon of is between the Moon of is the phenome of from reaching the sufficient of the sufficient	c. straight the Earth is lined with the and the Sun and the Sun and the Earth and the Earth and the Earth	d. no correct answer the Moon and the  d. no correct answer the sunlight is blocked by

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## Worksheets & Exams

B	W	nat	hai	or	en	s if	?
•	,	Iuc	114	M	Jen	24	****

- An object is put between a light source and a screen.
- 2. The Moon lies between the Sun and the Earth on one straight line.

### 3 A) Write the scientific term for each of the following:

- A natural phenomenon where the Moon lies between the Earth
   and the Sun on the same straight line.
- 2. The area in which some light reaches the Earth, while the rest is blocked.
- 3. The area where the light is blocked totally due to the presence
  of a dark object in the path of light.

## B) Mention the safety precautions during the solar eclipse.

## 4 A) Label the opposite figure:

- 1. .....
- 3.
- 4. The screen represents ......

### B) Give a reason for each of the following:

- 1. The occurrence of solar eclipse phenomenon.
- The distance between the Moon and the Earth varies during rotation.

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الصف السادس الابتدائي

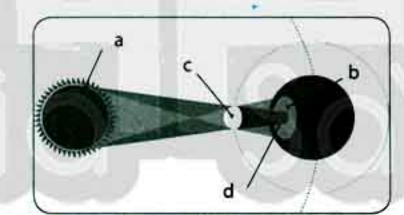
## Worksheet 10

A) Put ( ) or ( x ) in front of the following	ig sentences:	
1. The solar eclipse occurs when the Mo	oon casting its shadow on part	
of the Earth's surface.		(
2. Shadow is the lighting area where th	e total solar eclipse occurs.	(
3. We can look directly at the Sun durin	ng solar eclipse using sunglasses.	(
4. Both ultraviolet and infrared rays are	useful for man.	(
5. There are two types of solar eclipse.		(
3) Compare between total solar eclips	e and partial solar eclipse:	
Total solar eclipse	Partial solar eclipse	
A) Choose the correct answer:  1. In the semi-shaded area of the Moon		
A) Choose the correct answer:  1. In the semi-shaded area of the Mooi is known as the	n, we can see a part of the Sun for	
A) Choose the correct answer:  1. In the semi-shaded area of the Mooi is known as the	n, we can see a part of the Sun for b. partial solar eclipse d. annular solar eclipse	ming
A) Choose the correct answer:  1. In the semi-shaded area of the Moore is known as the	n, we can see a part of the Sun for b. partial solar eclipse d. annular solar eclipse	ming
A) Choose the correct answer:  1. In the semi-shaded area of the Moore is known as the	b. partial solar eclipse d. annular solar eclipse o the movement of in front	ming
A) Choose the correct answer:  1. In the semi-shaded area of the Moore is known as the	b. partial solar eclipse d. annular solar eclipse to the movement of	ming
A) Choose the correct answer:  1. In the semi-shaded area of the Moore is known as the	b. partial solar eclipse d. annular solar eclipse to the movement of	ming of th
A) Choose the correct answer:  1. In the semi-shaded area of the Moore is known as the	b. partial solar eclipse d. annular solar eclipse o the movement of	ming of th
A) Choose the correct answer:  1. In the semi-shaded area of the Moore is known as the	b. partial solar eclipse d. annular solar eclipse o the movement of	ming



# **Worksheets & Exams**

- The type of solar eclipse differs according to the movement of the Moon in front of the Sun.
- We can't see the Sun completely during the total solar eclipse.
- 3 A) Correct the underlined words:
  - 1. We see a partial solar eclipse when the Earth lies in the umbra area of the Moon.
  - Partial solar eclipse occurs when the Moon's cone shadow umbra doesn't reach the Earth's surface.
  - 3. To observe the solar eclipse safety you should wear lenses.
  - B) What happens if ...?
    - 1. We used special sight devices such as a telescope to see the solar eclipse.
    - 2. There is a dark body between the Sun and the Earth.
- A) Notice the following figure: label the letters on the drawing and explain the reason for the occurrence of the solar eclipse:



a	b
---	---

C d

The reason:

# B) Write the scientific term for each of the following:

- 1. The harmful rays emitted from the Sun during the solar eclipse. (\_\_\_\_\_\_\_)
- A part of the human eye that is harmed when looking directly at
   the Sun.

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الصف السادس الابتدائي



# Exercise

1-	Comp	lete:

1 is the main source of heat & light		
2 a tool that converts electric energy to	light	
3- The first scientist who invented the electric lamp v 4- The fluorescent lamp contains gas and a		
•••••		
5- We fill the lamp with gas to stop combust	ion.	
2- Write the ScINTIFIC Term:		
1- An inert gas that is found in the glass bulb of elect	ric lamp.[	]
2- The most popular source of artificial light in all ho	uses .[	]
3- An inert gas isn't used in making the fluorescent la	mp but these	types
of lamps are known with the gas name.	[	]
4- The part of lamp which protects the filament from	burning by	
isolating the air.	[	]
5- The lamp which has 2 filament of tungsten.	[	]
- What's the function of :		
1- The filament of tungsten in the glass bulb.		
	• • • • • • • • • • • • • • • • • • • •	• • • •
2- The glass bulb in the light bulb.		



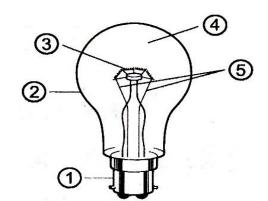


### 4- What happens in the following cases:

1- Turning off one light bulb in an electric circuit contains many lamps connected in series .2- One of electric lamps burns out , while it is connected in parallel with others .

.....

# 5- Write the label:



### 6- Look at the figure in front of you then answers:

- 1- In this case, the simple circuit is ...... thus the electric current passes through.
- 2- In case that any of these parts is not connected, the ........... doesn't pass through the circuit .
- 3- Write the labels in the figure

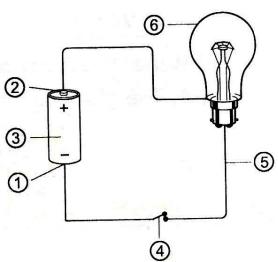
1)		
----	--	--

|  | <br> |
|--|------|------|------|------|------|------|------|------|------|------|------|

3)	3)					•	•	•			•				•	•	•	•	•	•				•
----	----	--	--	--	--	---	---	---	--	--	---	--	--	--	---	---	---	---	---	---	--	--	--	---

4	١																							
т,	,	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•

5)
----







### 1- Complete:

1- Iron is considered as an electrical, while wood is considered
as an electrical
2- Electricity is used to lighten and
3- The harms resulting from an electric shock depend on
passing in the human body and also on
2- Mention some of important precautions when
<u>dealing with electricity (only 3 points)</u>
a)
b)
c)
3- Give reason for:
1- The electric heater must not be placed close to furniture or rugs .
2- We must place a piece of plastic in the socket.
3- Impure water is not used to put out electric fires .
4- You have an electric shock if you touch a source of electricity.





4- Write the scientific Term:		
1- A closed path that the electric current passes in. [	•••••	]
2- It's caused by neglected the safety precautions that have to	be	
followed while dealing with electricity. [	]	
3- The materials that allow the electric charges to flow through	h them	ı .
[	, <b></b> .	]
4- The materials that don't allow the electric charges to flow the	hrough	1
them . [	• • • • • • •	]
5- What happens it:		
1- If you touch a source of electricity which your hands.		
2- A piece of glass is inserted in a closed electric circuit .		
3- If we place several connections in the same socket.		
6- Put ( $\sqrt{\ }$ ) or ( $\times$ ) and correct the wrong one:		
1) Electric shock occurs as a result of passing an electric current		
through human body.	(	)
2) Water is used to put off regular fire.	(	)
3)The human body is bad conductor for electricity.	(	)







### **A-Complete the following:**

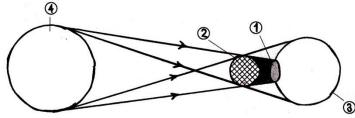
# C- Identify the astronomical phenomena in the following figure then answer:

1- What does the figure show?

2- The semi- shadow is called umbra.

3- The solar eclipse always occurs at night.

2- Label it .	
1)	
2)	
3)	



(.....)

(.....)





## **D-Choose the correct answer:**

1is a phe	nomenon of blocking	g the sunlight by the
moon from reaching the eart	h's surface.	
a)cloudy weather	b)winter	c)solar eclipse
2-penumbra is the	•••••	
a)dark shadow area	b)sunny area	c)semi-shadow area
3-The partial solar eclipse ap	ppears in the area of.	
a)umbra	b)penumbra	c)no correct answer
4-To observe the solar eclips	se safe you must wea	r
a)heavy clothes	b)lenses	c)special glasses
<b>C-Write the scientific</b>	term:	
1-The astronomical phenome	enon in which the sur	nlight is blocked from
reaching the earth by the r	noon. (	)
2-A phenomenon that its dur	ration doesn't exceed	seven minutes and
few seconds.	(	()
3-Hiding the sunlight totally	-	-
4-The harmful rays emitted t		
		)
5-The faint outer shadow are	ea of moon. (	)
D-Give reason for each	ch of the follow	ing:
1-Special glasses must be us	ed to look at the sola	r eclipse
2-We can't see the sun comp	letely during the sola	ar eclipse.



# (class work sheet )

## choose the correct answers:

1. the light bu	lbs are connected in	າir	n the house .
a. parallel .	b. serie	25.	c. parallel and series
d. series in so	me places and in po	arallel in the ot	her places .
2. the inner su	rface of the tube of	the fluorescen	t lamp is covered with
•••••			
a. mercury .		<b>b.</b> a	phosphoric material .
c. copper .			d. tungsten .
3. when we co	nnect more than o	ne bulb in serie	s to an electric sources
the light inten	sity of the bulbs	•••••	
a. decreases .			b. increases .
c. does not cho	ange .		d. (a),(b) and (c) .
4	are from the artif	icial sources th	at are used before
inventing the	electric lamps .		
a. candles .			b. oil lamps .
c. fluorescent	lamps .		d. ( a) and ( b )
5. the electric	lamp converts the $\epsilon$	electric energy	intoenergy.
a. kinetic .	b. light	c. sound	d. magnetic
6. all the follows:	wing are from the c	omponents of	the light bulb except
a. the filamen	t		b. the glass bulb .
c. two points	of connection	d. the l	base of the light bulb

2. give reason :			
1. the filament of the ligh	t bulb is mad	le of tungsten	
2. the glass tube of the flu			
	( home work	sheet )	
choose the correct answe	ers :		
1. the filament of the ligh	t bulb is mad	le of	
a. tungsten . b.	copper.	c. iron	d. wood
2. which of the following gases is found in the fluorescent lamp but not in the light bulb ?			
<ul><li>a. neon</li><li>b. argon</li><li>3. there are two point of lamp</li></ul>			d. water vapor fluorescent
a. to react with tungsten	filament .		
b. to connect the lamp to electricity .			
c. to prevent air from rea	c. to prevent air from reaching the filament .		
d. (a), (b) and ( c).			
4. when an electric lamp lamps burns out		ected in series v	vith the other
a. the light intensity decr	eases	b. the light int	ensity increases
c. all lamps turn off		d. no	correct answers

5. if we have three light bulbs and we need to so we must connect them	get higi	h light intensity
A)in series		b)in parallel
c) (a)and (b)	d)witho	out copper wires
6. the electric lamps represent a constant sou	irce of lig	that is
a. clear b. bright c. free from smoke and	l odor	d.(a),(b),and (c)
2. correct the anderlined word :		
1. the electric lamp converts the electric energy	gy into <u>k</u>	<u>inetic</u> energy
	(	)
2.the filament of the light bulb is made of car	<u>rbon (</u>	)

# ( class work sheet )

### choose the correct answers:

1. in our da	ily life , electricity can b	be used in	•••••	
a. cooking	and preserving food	b. lighting houses and factories		
c. operating	g some machines		d. ( a) ,(b) and ( c)	
2. all the fo	llowing materials allow	v the flow of th	e electric current	
a. iron	b. copper	c. rubber	d. aluminum	
<i>3.</i>	is a good conductor	of electricity .		
a. wood	b. iron	c. plastic	d. glass	
4. materials	s that do not allow the	flow of electric	ity through them are	
a. electric c	onductors		b. electric burns	
c. electric in	nsulators		d. electric fires	
5. dangers	of electricity include	•••••		
a. electric f	ires		b. electric shock	
c. electric b	urn		d . (a) , (b)and (c )	
6. plugging	many machines to o	ne socket may o	cause	
a. electric o	overload	b.	heating up of wires	
c. fires			d. (a) , (b) and (c)	
7	is bad conductor of el	ectricity		
a. glass	b. copper	c. iron	d. aluminum	

2. give reason for :	
1- plugging more than one machine to one sock	et causes electric fires.
2- not disconnecting the electric current from the	ne electric machine
after use causes fires .	
( home work sheet )	
choose the correct answers :	
1. to avoid the occurrence of electric shock, you	ı should not
a. touch the naked wires .	
b. touch electric machines with wet hand .	
c. put metallic objects in the electric socket .	
d. ( a) , ( b) and ( c) .	
2 . water cannot be used to put out electric fires	s , because
a. it is a good conductor of electricity .	
b. it is a bad conductor of electricity .	
c. it may evaporate	d. it is not cold
3. the electric shock may cause	
a. electric fires	b. electric overload
c. electric burns	d. electric current

4. the electric wire	es are made of	•••••	
a. glass	b. plastic	c. rubber	d. copper
5. electric wires m	ust be covered wi	th	
a. copper	b. plastic	c. iron	d. lead
6. which of the fole electricity?	lowing is from the	precautions in deal	ing with
a. place several co	nnections in the s	ame socket .	
b. play with the el	ectric connections	c. no co	orrect answers
2. write the scient	ific term :		
1. the material the	at should not be u	sed to put out electr	ic fire (        )
2. a danger of electrons and achine to one so		ns when plugging m	ore than one

# ( class work sheet )

## choose the correct answers:

1. when the n shadow on		n the sun and the ed	arth , it casts its
a. the earth	b. the sun	c. itself	d .no correct answer
	is the phenon aching the surfac	nenon of blocking th	e sunlight by the
a. cloudy wea	ther		b. winter
c. lunar eclips	e		d. solar eclipse
3. umbra is th	e		
a. dark shado	w area		b. semi-shadow area
c. lightened a	rea		d. all day
4. the orbit of	the moon aroun	d the earth is	•••••
a. oval	b. circular	c. spherical	d. rectangular
		traight line betwee arth ,hap	
a. total solar	eclipse		b. lunar eclipse
c. annular sol	c. annular solar eclipse d. partial solar eclips		partial solar eclipse
	noon lies in the h	igher orbit than the	earth in front of the
a. total solar	eclipse	b.	partial solar eclipse
c. annular sol	ar eclipse		d. lunar eclipse

2. give reason for :		
1. the total solar eclipse appears at umbra		
2. we see the sun as a lighting ring when annular solar eclipse is formed .		
	ne work sheet )	
	ne work sneet y	
choose the correct answers :		
1. the partial solar eclipse app	ears in the area of	
a. umbra b. penumbra	c. antumbra d. no correct answer	
2. when the moon prevents po	art of sunlight from reaching earth	
a. total solar eclipse	b. lunar eclipse	
c. partial solar eclipse	d. annular solar eclipse	
3. in the semi-shaded area of a forming what is known as the	the moon , we can see a part of the sun	
a. total solar eclipse	b. partial solar eclipse	
c. lunar eclipse	d. annular eclipse	
4is the dark inner eclipse appears .	r shadow area in which the total solar	
a . umbra	b. penumbra	
c. antumbra	d. no correct answers	

5is the faint outer shadow a eclipse appears .	rea in which the partial solar
a. umbra b. penumbra c. Antumbra	d. no correct answers
6. to observe the solar eclipse safely , you	should wear
a. special glasses	b. heavy clothes
c. medical glasses	d. lenses
2.write the scientific term :	
1. the solar eclipse in which part of the su	n disappears ( )
2. the moon's dark inner shadow area	<b>'</b>
3. the faint outer shadow area of moon (	, <u> </u>